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### AMENDMENTS TO THE CLAIMS

The following listing of claims replaces all prior versions of the claims and any prior listing of the claims in the present application. The listing of claims present each claim with its respective status show in parentheses. Only those claims being amended herein show their changes in highlighted form, wherein insertions appear as underlined text (e.g., insertions) while deletions appear as strikethrough text (e.g., ~~deletions~~). All original claims and previously presented claims appear as clean text.

1. (Canceled)

2. (Currently amended) A process according to Claim ~~4~~6, wherein the raw material is selected from the group consisting of black liquor skimming soap, tall oil soap, crude tall oil, tall oil pitch, sugarcane oil, residues from extraction, degumming, and refining of oils and fats, distillation residues of fatty acids and esters of animal and/or vegetable origin, deodorization distillates of vegetable oils, soybean oil, rice bran oil, shark liver oil, beef tallow, coffee oil, fish oil, cod liver oil, wheat germ oil, corn germ oil, palm oils, andiroba oils, and oil from tomato residues.

3. (Currently amended) A process according to Claim ~~4~~6, wherein the metal soap-forming compound is selected from the group consisting of oxides, sulfates, hydroxides, carbonates, acetates and chlorides of zinc, iron, manganese, magnesium, calcium, copper, cobalt, lead and aluminum.

4. (Currently amended) A process according to Claim ~~4~~6, wherein the valuable product is selected from the group consisting of provitamins, growth factors, flavonoids, sterols, lipoproteins, stilbenes, vitamins, fatty and wax alcohols, diterpenes, steroids, triterpenes, stilbenes, fatty acids, and rosin acids.

5. (Currently amended) A process according to Claim ~~4~~6, wherein the valuable product is selected from the group consisting of tocopherols, tocotrienols, carotenoids, vitamin A, vitamin K, vitamin D, squalane, oryzanol, lycopene, ceryl alcohol, cetyl alcohol, lignoceryl alcohol, behenyl alcohol, resin alcohols, resin aldehydes, labdanes, sitosterol, stigmastanol, campesterol, campestanol, cholesterol, cycloartenol, 3,5-stigmastadien-7-one,

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serratenediol, squalene; prenols, trans-pinosylvin dimethyl ether, abietic acid, dehydroabietic acid, neoabietic acid, isopimaric acid, pimaric acid, paulstric acid, oleic acid, linoleic acid, stearic acid, and palmitic acid.

6. **(Currently amended)** A process ~~according to Claim 1, for separating a valuable product from a raw material comprising:~~

providing a raw material comprising one or more unsaponifiable compounds and one or more saponifiable compounds, wherein the one or more saponifiable compounds comprises one or more compounds in free acid and/or soap form;

~~further comprising reacting the raw material with a sodium or potassium base to saponify free acid saponifiable compounds thereby forming a mixture comprising saponified compounds and unsaponifiable compounds prior to the reacting to make the first product.~~

reacting the saponifiable component comprising one or more compounds in free acid and/or soap form with a metal soap-forming compound to make a first product comprising metal soaps and one or more unsaponifiable compounds; and

subjecting the mixture of metal soaps and one or more unsaponifiable compounds to a distillation to form a distillate comprising at least a portion of the unsaponifiable compounds and a residue comprising the metal soaps, wherein the distillate and/or the residue comprises a valuable product.

7. **(Original)** A process according to Claim 6, wherein the sodium or potassium base is selected from the group consisting of sodium hydroxide and potassium hydroxide.

8. **(Previously presented)** A process according to Claim 6, wherein the raw material further comprises esters that are hydrolyzed upon exposure to the sodium or potassium base.

9. **(Currently amended)** A process according to Claim 6, further comprising adding a mineral acid to at least a portion of the saponified compounds to form an acidulated mixture prior to the reacting to make the first product ~~with the sodium or potassium base.~~

10. **(Currently amended)** A process according to Claim 9, further comprising subjecting the acidulated mixture to a distillation to produce a residue comprising one or more non-volatile compounds and a distillate comprising one or more unsaponifiable compounds and

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one or more saponifiable compounds prior to the reacting ~~to make the first product~~ with the sodium or potassium base.

11. (Currently amended) A process according to Claim ~~16~~, further comprising subjecting the raw material to a distillation to produce a residue comprising one or more non-volatile compounds and a distillate comprising one or more unsaponifiable compounds and one or more saponifiable compounds prior to the reacting ~~to make the first product~~ with the sodium or potassium base.

12. (Currently Amended) A process according to Claim ~~16~~, wherein the raw material further comprises esters that are hydrolyzed to make a raw material including hydrolyzed esters prior to the reacting ~~to make the first product~~ with the sodium or potassium base.

13. (Original) A process according to Claim 12, wherein the hydrolysis is performed by combining the raw material with water under high pressure and high temperature.

14. (Currently amended) A process according to Claim 12, further comprising subjecting the raw material including hydrolyzed esters to a distillation to produce a residue comprising one or more non-volatile compounds and a distillate comprising one or more unsaponifiable compounds and one or more saponifiable compounds prior to the reacting ~~to make the first product~~ with the sodium or potassium base.

15. (Currently amended) A process according to Claim ~~16~~, further comprising treating the raw material to remove impurities and/or non-volatile compounds prior to the reacting ~~to make the first product~~ with the sodium or potassium base.

16. (Currently amended) A process according to Claim ~~16~~, wherein the first product is substantially dry.

17. (Currently amended) A process according to Claim ~~16~~, further comprising treating the first product to remove water prior to the distilling to separate at least a portion of the unsaponifiable compounds from the metal soaps.

18. (Original) A process according to Claim 17, wherein the removal of water is effected by thin-film evaporation, decantation and/or centrifugation.

19. (Currently amended) A process according to Claim ~~16~~, further comprising distilling or evaporating one or more compounds selected from the group consisting

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of lights, medium-lights, and water from the first product prior to the distilling to separate at least a portion of the unsaponifiable compounds from the metal soaps.

20. **(Currently amended)** A process according to Claim ~~16~~, further comprising subjecting the distillate comprising at least a portion of the unsaponifiable compounds to a subsequent distillation to form a second distillate and a second residue, thereby further purifying and/or separating the unsaponifiable compounds.

21. **(Original)** A process according to Claim 20, wherein the second residue comprises sterols, further comprising crystallizing the sterols in the second residue.

22. **(Currently amended)** A process according to Claim ~~16~~, further comprising acidulating the residue comprising the metal soaps to form their corresponding free acids.

23. **(Original)** A process according to Claim 22, further comprising distilling the free acids.

24. **(Previously presented)** A process for separating the components of crude tall oil, comprising:

providing crude tall oil comprising one or more unsaponifiable compounds and two or more saponifiable compounds, wherein the saponifiable compounds comprises fatty acids and rosin acids in free acid and/or soap form;

reacting the saponifiable compounds with a metal soap-forming compound to make a first product comprising metal soaps and one or more unsaponifiable compounds;

distilling or evaporating one or more compounds selected from the group consisting of lights, medium-lights, water, and unsaponifiable compounds from the first product;

distilling a mixture of metal soaps and one or more unsaponifiable compounds to form a distillate comprising at least a portion of the unsaponifiable compounds and a residue comprising the metal soaps; and

acidifying the residue to form a mixture comprising the rosin acids and fatty acids substantially in free acid form.

25. **(Previously presented)** A process for separating a valuable product from a raw material comprising:

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providing a raw material comprising one or more unsaponifiable compounds and one or more saponifiable compounds, wherein the one or more saponifiable compounds comprises one or more compounds in free acid and/or soap form;

reacting the saponifiable component comprising one or more compounds in free acid and/or soap form with a sodium and/or potassium base thereby forming sodium and/or potassium soaps;

reacting the sodium and/or potassium soaps with a metal soap forming compound to make a first product comprising metal soaps and one or more unsaponifiable compounds; and

subjecting a mixture of metal soaps and one or more unsaponifiable compounds to a distillation to form distillate comprising at least a portion of the unsaponifiable compounds and a residue comprising the metal soaps, wherein the distillate and/or the residue comprises the valuable product.

26. (Previously presented) A process according to Claim 25, wherein the metal soap-forming compound is selected from the group consisting of oxides, sulfates, hydroxides, carbonates, acetates and chlorides of zinc, iron, manganese, magnesium, calcium, copper, cobalt, lead and aluminum.

27. (Previously presented) A process according to Claim 25, wherein the raw material is selected from the group consisting of black liquor skimming soap, tall oil soap, crude tall oil, tall oil pitch, sugarcane oil, residues from extraction, degumming, and refining of oils and fats, distillation residues of fatty acids and esters of animal and/or vegetable origin, deodorization distillates of vegetable oils, soybean oil, rice bran oil, shark liver oil, beef tallow, coffee oil, fish oil, cod liver oil, wheat germ oil, corn germ oil, palm oils, andiroba oils, and oil from tomato residues.

28. (New) A process according to Claim 25, wherein the valuable product is selected from the group consisting of provitamins, growth factors, flavonoids, sterols, lipoproteins, stilbenes, vitamins, fatty and wax alcohols, diterpenes, steroids, triterpenes, stilbenes, fatty acids, and rosin acids.

29. (New) A process according to Claim 25, wherein the valuable product is selected from the group consisting of tocopherols, tocotrienols, carotenoids, vitamin A, vitamin K, vitamin D, squalane, oryzanol, lycopene, ceryl alcohol, cetyl alcohol, lignoceryl alcohol, behenyl

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alcohol, resin alcohols, resin aldehydes, labdanes, sitosterol, stigmasterol, campesterol, campestanol, cholesterol, cycloartenol, 3,5-stigmastadien-7-one, serratenediol, squalene; prenols, trans-pinosylvin dimethyl ether, abietic acid, dehydroabietic acid, neoabietic acid, isopimaric acid, pimaric acid, paulstric acid, oleic acid, linoleic acid, stearic acid, and palmitic acid.

30. (New) A process for separating a valuable product from a raw material comprising:

providing a raw material comprising one or more unsaponifiable compounds and one or more saponifiable compounds, wherein the one or more saponifiable compounds comprises one or more compounds in free acid and/or soap form;

reacting the saponifiable component comprising one or more compounds in free acid and/or soap form with a metal soap-forming compound to make a first product comprising metal soaps and one or more unsaponifiable compounds;

treating the first product to remove water, wherein the removal of water is effected by thin-film evaporation, decantation and/or centrifugation

subjecting the first product to a distillation to form a distillate comprising at least a portion of the unsaponifiable compounds and a residue comprising the metal soaps, wherein the distillate and/or the residue comprises a valuable product.

31. (New) A process according to Claim 30, wherein the metal soap-forming compound is selected from the group consisting of oxides, sulfates, hydroxides, carbonates, acetates and chlorides of zinc, iron, manganese, magnesium, calcium, copper, cobalt, lead and aluminum.

32. (New) A process according to Claim 30, wherein the raw material is selected from the group consisting of black liquor skimming soap, tall oil soap, crude tall oil, tall oil pitch, sugarcane oil, residues from extraction, degumming, and refining of oils and fats, distillation residues of fatty acids and esters of animal and/or vegetable origin, deodorization distillates of vegetable oils, soybean oil, rice bran oil, shark liver oil, beef tallow, coffee oil, fish oil, cod liver oil, wheat germ oil, corn germ oil, palm oils, andiroba oils, and oil from tomato residues.

33. (New) A process according to Claim 25, wherein the valuable product is selected from the group consisting of provitamins, growth factors, flavonoids, sterols, lipoproteins,

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stilbenes, vitamins, fatty and wax alcohols, diterpenes, steroids, triterpenes, stilbenes, fatty acids, and rosin acids.

34. (New) A process according to Claim 25, wherein the valuable product is selected from the group consisting of tocopherols, tocotrienols, carotenoids, vitamin A, vitamin K, vitamin D, squalane, oryzanol, lycopene, ceryl alcohol, cetyl alcohol, lignoceryl alcohol, behenyl alcohol, resin alcohols, resin aldehydes, labdanes, sitosterol, stigmastanol, campesterol, campestanol, cholesterol, cycloartenol, 3,5-stigmastadien-7-one, serratenediol, squalene; prenols, trans-pinosylvin dimethyl ether, abietic acid, dehydroabietic acid, neoabietic acid, isopimaric acid, pimaric acid, paulstric acid, oleic acid, linoleic acid, stearic acid, and palmitic acid.

35. (New) A process according to Claim 30, wherein the raw material further comprises esters that are hydrolyzed to make a raw material including hydrolyzed esters prior to the reacting to make the first product.

36. (New) A process according to Claim 35, further comprising subjecting the raw material including hydrolyzed esters to a distillation to produce a residue comprising one or more non-volatile compounds and a distillate comprising one or more unsaponifiable compounds and one or more saponifiable compounds prior to the reacting to make the first product.

37. (New) A process according to Claim 30, further comprising subjecting the distillate comprising at least a portion of the unsaponifiable compounds to a subsequent distillation to form a second distillate and a second residue, thereby further purifying and/or separating the unsaponifiable compounds.

38. (New) A process according to Claim 30, further comprising acidulating the residue comprising the metal soaps to form their corresponding free acids.